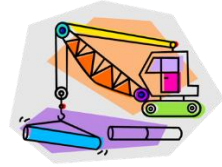
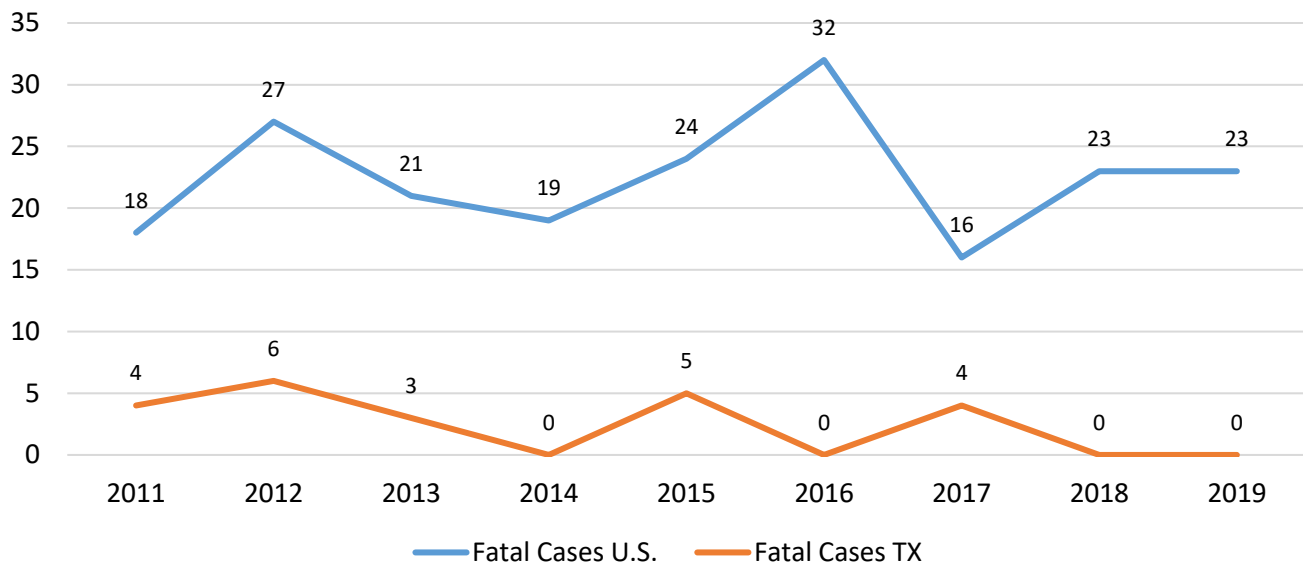


## FY 21 SE TX Crane and Rigging Related Incidents\* (Oct 2021)

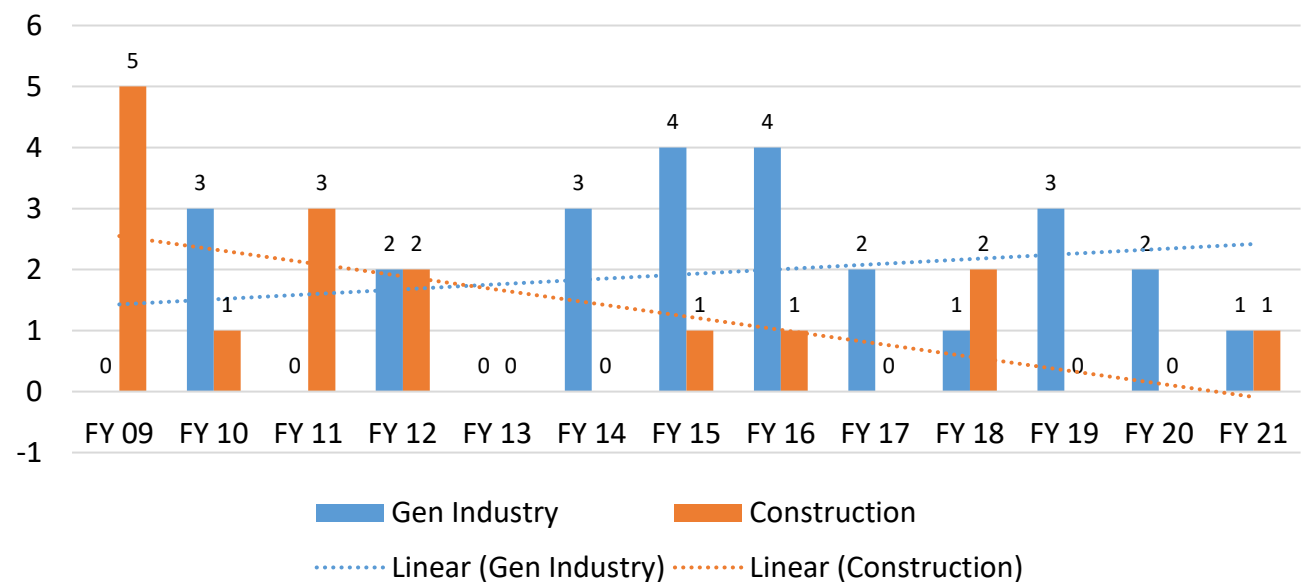
Crane and rigging related incidents are general in nature and are based on first report of the incidents. The incidents include any operations where it appears that either a crane or rigging were involved and appeared to be an integral part of the work being done.



### BLS Fatal Injuries by Primary Source Cranes 343XXX\*\*



### FY 09 - FY 21 SE TX Crane Related Fat/Cat Incidents\*



## **FY 21 SE TX Crane Related Fat/Cat Incident Narratives\***

### **Construction**

#### **Fall lower level structure or equipment**

- Two employees were in a personnel basket that was attached to the jib of a crane. The employees were assisting with the installation of arms for a power line tower/monopole. As the employees were adjusting a bracket on the arm of the monopole, the personnel basket fell 150' when it came off the crane boom. One employee died at the scene and the second employee was transported to the hospital and survived.

### **General Industry**

#### **Struck by powered vehicle**

- Employee was operating a crane in the back area of the property and appears to have been struck by the crane.

Starting in FY 21, rigging related incidents are being tracked. FY 21 SE TX fatal rigging related incidents\* not already covered under crane related incidents include:

### **Construction**

#### **Struck by collapsing structure, equipment, or material**

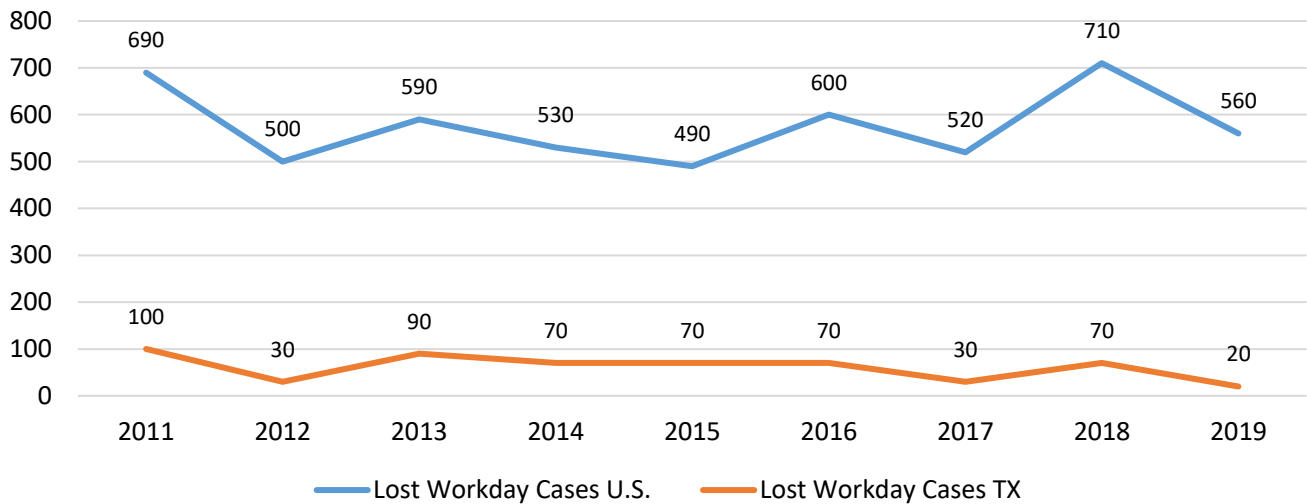
- Employees on the 13th and 14th floor were in the process of adjusting the stairs for proper elevation. Employees in between the 5th and 6th floors were in the process of making adjustments to the handrails of the staircases. To complete the task of adjusting the stairs to the proper elevation, the employees were using a 20-foot webbed sling, and two 3-ton chain hoists were attached to the 20-foot eyelets of the sling as it was wrapped over the overhead stairs (14th floor). The chain hoist was attached to each side of the sling, while the other end of the hoist is attached to the anchor point of the stair below; therefore, creating what was believed to be a basket hitch. The crew went to cut the stairs at the landing that had been previously welded and lift it with the sling that was wrapped around the staircase above their heads by pulling on the chain fall hoist attached to each end of the sling. They would pull the chain hoist and lift each side of the stair approximately 5 inches. The crew went to lift the stairs approximately 5 inches and add a ¼" shim under the stair and reattached with a 5/16" weld to the landing. At the time they were making these corrections, the stairs on the 13th and 14th floor was not welded or bolted down. The employees were in the process of adjusting the stairs for proper elevation when the 14th staircase collapsed hitting the 13th floor, which caused all of the stairs directly below them to collapse as well. The three employees that were tied off to the staircases were taken down with the collapse.

### **General Industry**

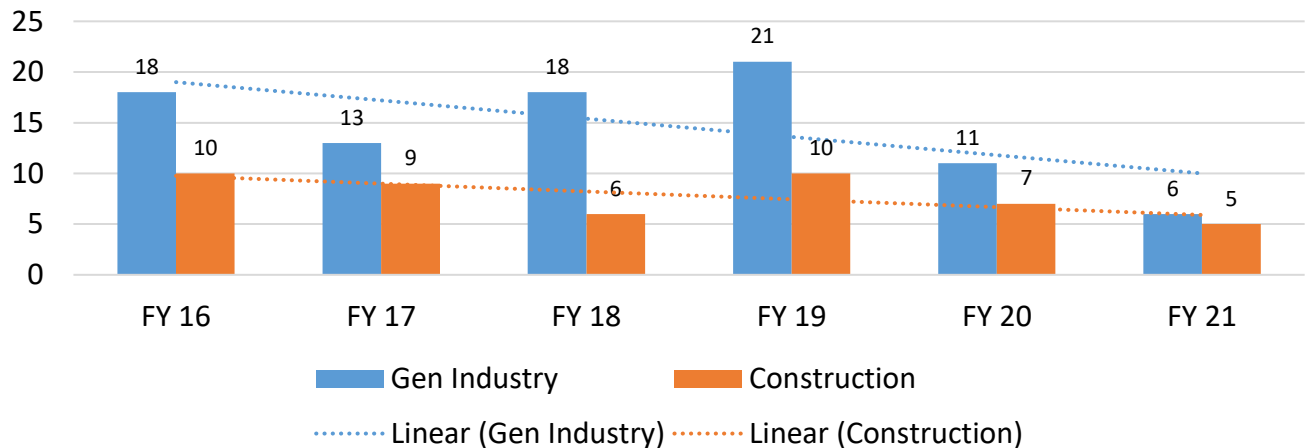
#### **Struck by falling object or equipment**

- Employees arrived at an oil and gas well and were in the process of rigging up a mobile rig platform. An employee was in the area between the base beam and rig floor. The rig floor fell and crushed him.

BLS Lost Workday Cases by Primary Source Cranes 343XXX\*\*



FY 16 - FY 21 Crane Related Serious Incident Reports\*



### FY 21 SE TX Crane Related Serious Incident Reports\*

#### Construction

Caught between stationary and moving equipment or objects

- Crane operator hoisted a load of two 40' sections of pile driving leads, placed it, lowered it. Two riggers unhooked the rigging and put the empty hooks beside the load and signaled the operator to hoist the empty hooks. When the operator hoisted, a hook inadvertently hooked onto the load shifting it and creating a pinch point where an employee was positioned. He suffered a skinned part on the backside of his right calf, a 1"x6" minor cut, and a 4" cut on front side lower right leg.

Fall lower level structure or equipment

- While exiting a 68" high crane deck an employee lost his balance and fell to the ground fracturing two ribs and spraining his shoulder.

#### Struck by falling object or equipment

- Employees were hoisting a garbage chute with the assistance of a crane. During the lift, the chute broke free, striking two employees. One employee was treated with first aid on site, while the other employee was taken to a medical facility for treatment.
- Employee was moving a large 2300 lb. metal table with an overhead crane in a welding shop. He used a single sling for rigging instead of two slings and the table got overbalance and fell on his right leg breaking it.
- Employee went over to assist another employee with a load of steel metal pieces that were being lifting by the crane. The load was approximately 3' off the ground when a piece of steel metal fell striking his left foot fracturing it.

#### General Industry

##### Caught between stationary and moving equipment or objects

- Three employees were using a crane to move a 6.7 ton work reel into position for production. One employee placed his hand between the frame and the reel base as the crane operator was lowering the reel. His left middle fingertip was amputated.

##### Fall lower level nonmoving vehicle

- Employee loaded a track crane onto a low boy trailer and as he was climbing down, he lost his footing and fell 4' and suffered a spiral fracture in his lower right leg.

##### Fall lower level structure or equipment

- Employee was operating an overhead crane from a scissor lift. He was holding the object being lifted and the hook caught his glove. The crane moved in the wrong direction and caused him to fall from the scissor lift. The safety chain was not in place on scissor lift.

#### Struck by falling object or equipment

- Employee was attempting to flip a 1,100 pound disc on a table to grind the opposite side. He had put softeners between the disc and the sling since the disc had sharp edges. The softeners slipped out and the nylon sling was sliced by the sharp edges on the disc during the lift. His left foot was caught under the disc. He was taken to the clinic for evaluation of left foot and released with restrictions. Pain in the right foot wasn't mentioned. Later he experienced pain in his right foot and went to the hospital and was admitted for a fracture. The disc may have fallen on his right foot but then rested on his left.

#### Struck by rolling object or equipment

- Employee was working on the dock while discharging round bars from a vessel. He was flagging the vessels crane operator and momentarily lost awareness of his foot placement while reaching for the strap in order to remove it from the eye hook and he placed his foot on the landing timbers where the bars were placed. A bar suddenly rolled against his left foot fracturing his ankle.

#### Struck by shifting load or equipment

- Employee was moving some steel beams with an overhead crane and as he was setting them down, they shifted. His legs were pinned between the beams fracturing both legs.

Starting in FY 21, rigging related incidents are being tracked. FY 21 SE TX serious injury rigging related incidents\* not already covered under crane related incidents include:

### **Construction**

Struck by swinging load or equipment

- Employees were working on a concrete ground box and attempted to set the steel lid. They were guiding the lid which was suspended using a back hoe the knuckle of the backhoe curled causing the load to swing. His hand was pinched between the lid and box amputating two fingers on his left hand.

### **General Industry**

Struck by falling object or equipment

- Employee was standing between two flatbed trailers retrieving a chain being used to lower machinery onto a trailer. Somebody told him to watch out the when the machinery started falling down. He ducked under a flatbed trailer with his left hand holding onto the trailer. His hand was caught between the trailer and the machinery amputating the tips of the ring, middle, and index fingers.

Caught between moving objects or equipment

- Employee was connecting rigging for removing sections of steel piping. He reached and grabbed the cable of a winch and his hand was pulled into the winch snatch block between the cable and pulley. Four fingers were crushed.

Struck by falling object or equipment

- Contractor was assisting the maintenance manager in replacing the autoclave seal. The seal was being lifted by the hoist when the connecting I-bolt came loose. This released the weight of the seal onto his hand. A wrench was laying across the surface which helped break the full weight of the seal. He sustained a severe crushing injury to his right hand and fingers, especially the pinky finger.

\*Fatalities and SIRs are logged or recorded in various mediums and reports are generated using various criteria. Late reporting, change in status, and other factors may affect the overall numbers over time. Houston specific data is edited to determine a count of fatalities/SIRs under OSHA jurisdiction and may change over time as records are updated. Narratives are rewritten for brevity and edited and may not reflect the final results of an investigation. Data in many cases is used 'as is'. The numbers and information are for accident prevention purposes and trending and is not intended to be a statistical study or evaluation. For questions email Jim Shelton at the HNAO at: [shelton.james@dol.gov](mailto:shelton.james@dol.gov)

\*\* BLS and OSHA data are not the same. For example, OSHA is on a fiscal year and BLS is on a calendar year. Some BLS data may be based on estimates. BLS is cranes in general and not general industry or construction specific.